

CLAIMS

1. An apparatus for cooling a compact disc, comprising:
an actuator configured to rotate the compact disc; and
an air-moving device driven by said actuator and configured to
move air about the compact disc.
2. The apparatus of claim 1, wherein said actuator
comprises a motor.
3. The apparatus of claim 1, wherein said air-moving device
comprises a fan.
4. The apparatus of claim 1, further comprising a hub
configured to retain the compact disc, said actuator being coupled to said hub
and being configured to rotate said hub.
5. The apparatus of claim 4, wherein said air-moving device
is attached to said hub.
6. The apparatus of claim 5, wherein said air-moving device
includes a throughhole receiving said hub.
7. A device for at least one of reading and writing to a
compact disc, comprising:
a hub configured to retain the compact disc;
at least one propeller attached to said hub; and
an actuator coupled to said hub and configured to rotate said hub
such that said at least one propeller moves air about the compact disc.

8. The apparatus of claim 7, wherein said at least one propeller extends radially from said hub.

9. The apparatus of claim 7, wherein said at least one propeller has a pitch such that air is moved toward the compact disc when said actuator rotates said hub.

10. The apparatus of claim 7, wherein said at least one propeller comprises a plurality of propellers connected together by a closed ring.

11. The apparatus of claim 7, wherein said at least one propeller comprises a plurality of propellers defining a plane, said hub having an axis of rotation, said plane being nonperpendicular to the axis of rotation.

12. The apparatus of claim 11, wherein an angle between the plane and the axis of rotation is approximately between 60° and 89°.

13. The apparatus of claim 7, wherein said at least one propeller is configured to move air adjacent a read/write side of the compact disc.

14. The apparatus of claim 7, further comprising a read/write head, a radially outermost tip of said at least one propeller being closer to said hub in a radial direction than is said read/write head.

15. A method for processing a compact disc, comprising:
placing the compact disc on a rotatable hub such that a
throughhole of the compact disc receives said hub;
engaging the compact disc with a fan device such that the
compact disc is biased farther onto said hub;
attaching said fan device to said hub; and
rotating said hub such that the compact disc and said fan device
also rotate, and said fan device moves air about the compact disc to thereby
carry heat away from the compact disc.

16. The method of claim 15, wherein said attaching step
includes placing the fan device on the hub such that a throughhole of said fan
device receives said hub with an interference fit.

17. The method of claim 15, wherein said rotating step
includes blowing air toward the compact disc.

18. The method of claim 15, wherein said rotating step
includes drawing air away from the compact disc.

19. The method of claim 15, wherein said engaging step
includes using a compression arm to push said fan device into engagement with
the compact disc.

20. The method of claim 19, wherein said compression arm is
integrally formed with said fan device.

21. The method of claim 15, wherein said attaching step
includes using a compression arm to push said fan device onto said hub with an
interference fit.

22. The method of claim 21, wherein said compression arm is integrally formed with said fan device.